

Genestar™ GW1458HF

Polyamide 9T

Kuraray Co., Ltd.

Message:

The G1300H and G1350H are suitable for use in a wide range of electrical and electronics components as UL94 HB flammability rating, while the G1302 grade delivers low friction. HB grades do not contain halogen-containing flame-retardants. The GW1458HF offers low warpage and high flow-ability.

*'Halogen free' follows the standards that Br is less than 900ppm, Cl is less than 900ppm, and total of halogen amount (Br and Cl) is less than 1500ppm.

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Features	Halogen Free		
	High Flow		
	Low Warpage		
Uses	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	
Melt Mass-Flow Rate (MFR) (320°C/2.16 kg)	90	g/10 min	ASTM D1238
Molding Shrinkage			
Flow : 1.00 mm	0.050	%	
Across Flow : 1.00 mm	0.50	%	
Water Absorption ¹ (Equilibrium, 40°C, 95%RH)	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	150	MPa	ASTM D638
Tensile Elongation (Break)	3.1	%	ASTM D638
Flexural Modulus	13000	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	290	°C	ASTM D648
Glass Transition Temperature	125	°C	
Melting Temperature	306	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ² (320°C, 500.0 μm)	6.20	cm	
Weld Elongation	0.40	%	ASTM D638
Weld Strength	32.0	MPa	ASTM D638
NOTE			
1.	96 hrs		
2.	750kgf		

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